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Dated: March 1, 2006

Signature: [Signature]
(William K. Merkel)

Docket No.: 27373/33716
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Whitley et al.

Application No.: 09/869,974

Confirmation No.: 8665

Filed: November 15, 2001

Art Unit: 1633

For: Recombinant Herpes Simplex Virus Useful for
Treating Neoplastic Disease

Examiner: A. Wehbe

DECLARATION UNDER 37 C.F.R. § 1.131

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

1. I, Richard J. Whitley, M.D., declare that:
2. I am a co-inventor named on United States Patent Application No. 09/869,974.
3. Since 2003, I have been the Loeb Eminent Scholar Chair of Pediatrics and a professor of Pediatrics, Microbiology, Medicine and Neurosurgery at the University of Alabama-Birmingham (UAB). A copy of my *curriculum vitae* is attached as Exhibit B. During my tenure at UAB, I have conducted biomedical research in addition to satisfying teaching responsibilities. One research project in which I have been actively involved for several years is the construction of attenuated herpes simplex virus mutants encoding a heterologous cytokine useful in the treatment of tumorigenic disease. I have been informed that uses of such viruses in the preparation of medicaments for the treatment of tumorigenic disease are presently being claimed in the above-captioned patent application.
4. Laboratory work associated with the project is described in the laboratory notebook pages attached hereto as Exhibit A. Dates have been redacted from the pages of the exhibit and, for ease of reference, each page has been labeled with "Exhibit A" and a page number. The notebook pages of Exhibit A collectively demonstrate that, prior to August 12, 1997, my co-inventors and I had produced and recognized the value of attenuated

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herpes simplex virus mutants encoding a heterologous cytokine in treating tumorigenic disease.

5. In the research described in the notebook pages attached as Exhibits A, an attenuated herpes simplex virus type 1 in which each $\gamma_134.5$ gene was ultimately replaced by a cytokine gene, was used. In the constructions, an intermediate HSV vector construct was used. This construct, R3659, had substituted a copy of the HSV thymidine kinase (tk) gene under the control of the HSV $\alpha 27$ promoter for each of the $\gamma_134.5$ genes. In generating the final constructs according to the invention, each $P_{\alpha 27}$ -tk gene was replaced by a particular cytokine gene, e.g., either the gene encoding murine interleukin-4 (IL-4) or the gene encoding murine interleukin-10 (IL-10) (see, e.g., notebook page 1 of Exhibit A).

6. The attenuated HSV-1 vector encoding IL-4 was designated R8306. As indicated in notebook page 1 of Exhibit A, the R8306 mutant viral vector had been constructed, and the titer of a lysate of the virus had been measured at 2.2×10^{10} plaque forming units/ml (pfu/ml), prior to August 12, 1997.

7. The attenuated HSV-1 vector encoding IL-10 was designated R8308. This mutant viral vector also had been constructed, and the titer of a lysate of this viral vector had been measured at 3.1×10^{10} pfu/ml, prior to August 12, 1997. See notebook page 1 of Exhibit A.

8. Notebook pages 2-4 of Exhibit A further establish that the R8306 and R8308 attenuated mutant HSV-1 vectors expressing IL-4 and IL-10, respectively, were able to productively infect U251MG and D54MG human glioma (i.e., tumorigenic) cells. In particular, R8306 infection of U251MG cells produced viral titers that, for a multiplicity of infection (m.o.i.) of 0.1, increased from 1.7×10^2 pfu/ml at 3 hours post-infection to 5×10^6 pfu/ml at 72 hours post-infection. Exhibit A, notebook page 3. This pattern of increasing viral titer with increasing time post-infection was also found at multiplicities of infection of 1.0 and 10. Exhibit A, notebook page 3.

9. Consistent increases in the titers of R8306 with increasing time post-infection were also observed upon infection of cultures of D54MG human glioma cells at each tested multiplicity of infection (i.e., 0.1, 1.0 or 10 m.o.i.). For example, notebook page 4 of Exhibit A shows that, at an m.o.i. of 0.1, the titer of R8306 on D54MG cells increased from 5×10^2 pfu/ml at 3 hours post-infection to 5×10^4 pfu/ml at 48 hours post-infection.

10. Viral titers of R8308 upon infection of U251MG cells also increased with increasing time post-infection. For example, the titer of R8308 increased from 6×10^1 pfu/ml at 3 hours post-infection to 1×10^6 pfu/ml at 72 hours post-infection, when R8308 infected U251MG cells at an m.o.i. of 0.1. Exhibit A, notebook page 3. Consistent increases in viral titers with increasing time post-infection were also observed for m.o.i. values of 1.0 and 10.0. Exhibit A, notebook page 3.

11. The titer of R8308 on D54MG human glioma cells increased from 2×10^1 pfu/ml at 3 hours post-infection to 2×10^4 pfu/ml at 48 hours post-infection, when the attenuated HSV-1 vector was infected at an m.o.i. of 0.1. Exhibit A, page 4. The titer also increased over time post-infection when D54MG human glioma cells were infected with R8308 at an m.o.i. of 1.0 and 10.0, as shown in the data table on laboratory notebook page 4 of Exhibit A.

12. Notebook page 12 of Exhibit A shows survival curves for C57BL mice bearing human glioma cells following injection with saline or with one of the attenuated mutant HSV-1 vectors encoding a heterologous cytokine (i.e., R8306 or R8308). As indicated by the curves, administration of either R8306 or R8308 prolonged survival of the diseased mice relative to the saline control, establishing that a mutant herpes simplex virus ($\gamma_134.5$ deleted) encoding a heterologous cytokine (IL-4 in R8306; IL-10 in R8308) could be used in the treatment of tumorigenic disease.

13. Thus, we were in possession of a plurality of distinct attenuated herpes simplex viruses in which each copy of the $\gamma_134.5$ gene had been disrupted by a deletion in the coding region, with each of the attenuated HSV-1 vectors encoding a heterologous cytokine (c.g., IL-4 or IL-10), and we understood the use of these attenuated viruses in the treatment of tumorigenic disease. Accordingly, we were in possession of the invention claimed in the above-captioned patent application at a point in time prior to August 12, 1997.

14. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing thereon.

February 26, 2006
Date

Richard J. Whitley, M.D.
Richard J. Whitley, M.D.

EXHIBIT A

REDACTED**Recombinant HSV Expressing Cytokines**

Virus	Genotype	Titer
R8306	HSV-1($\Delta 34.5$) + murine IL-4 cDNA, tk ⁺	2.2×10^{10} PFU/ml 4 v _i Titer
R8308	HSV-1($\Delta 34.5$) + murine IL-10 cDNA, tk ⁺	3.1×10^{10} PFU/ml 4 v _i Titer

In Paul's freezer - See Kelly

Expt. #1 Replication assay :-

Seed MP24 plates with U251MG and D54MG
(human glioma) cells.

Infect with 10, 1 and 0.1 moi of
R8306 and R8308

Stock Titer of R8306 = 2.2×10^{10} PFU/ml
R8308 = 3.1×10^{10} PFU/ml

Collect cell and sup at 3, 12, 24, 48 & 72 hr
post infection.

Assay on Vero plates:

Replication Assay:

~~EA~~ ~~U251MG~~

~~VERO~~

~~Infectivity of~~ ~~moi added~~

see next page.

(a) u251MG

Virus	Infectivity of	moi added	Yield PFU/ml (hus)				
			3	12	24	48	72
F	Intracellular	10	ND	3×10^6	5×10^6	1×10^6	ND
		1	ND	1×10^5	1.7×10^6	1×10^6	ND
		0.1	ND	ND	ND	ND	ND
	Extracellular	10	ND	3.7×10^4	2×10^6	1×10^6	ND
		1	ND	1×10^4	3.4×10^5	2×10^6	ND
		0.1	ND	ND	ND	ND	ND
	Extracellular	10	2.8×10^3	2×10^4	1.6×10^6	2×10^6	ND
		1	5×10^2	2.7×10^3	5×10^6	3×10^5	4×10^4
		0.1	1.7×10^2	1.5×10^2	3×10^6	2×10^6	5×10^6
		10	5×10^2	3×10^2	1.9×10^4	2.2×10^9	ND
		1	2×10^2	4×10^1	4.3×10^3	1.2×10^4	1.3×10^4
		0.1	1×10^1	1×10^1	2×10^3	9×10^3	1.6×10^4
R8308	Intracellular	10	2.6×10^3	2×10^4	3×10^6	3×10^5	ND
		1	4×10^2	1×10^5	2×10^5	4×10^6	7.5×10^5
		0.1	6×10^1	1×10^4	5×10^6	1×10^6	1×10^6
	Extracellular	10	6×10^2	4×10^2	1.8×10^4	2.9×10^4	ND
		1	2×10^2	1.4×10^3	4×10^3	1×10^4	3×10^3
		0.1	2×10	3×10^2	6×10^2	1.7×10^4	4×10^3

(b) D54MG

Virus	Infectivity of	moi added	Yield PFU/ml				
			3	12	24	48	72
F	Intracellular	10	ND	4×10^4	3×10^6	1.4×10^6	ND
		1	ND	4×10^4	4×10^6	3×10^6	ND
		0.1	ND	ND	ND	ND	ND
	Extracellular	10	ND	1×10^4	4×10^6	3×10^6	ND
		1	ND	1×10^1	2×10^3	5×10^3	ND
		0.1	ND	ND	ND	ND	ND
	Intracellular	10	6×10^3	7×10^5	3×10^6	2×10^6	ND
		1	2.2×10^3	1×10^4	1.5×10^5	7.5×10^5	ND
		0.1	5×10^2	1×10^3	1×10^4	5×10^4	ND
R8306	Extracellular	10	5×10^2	4×10^2	1×10^3	3.7×10^4	ND
		1	2×10^1	4×10^1	8×10^2	2×10^3	1×10^4
		0.1	1×10^1	1×10^1	1×10^1	1×10^1	1×10^1
	Intracellular	10	5×10^4	4.1×10^5	1.2×10^6	4×10^5	ND
		1	2×10^3	4×10^3	1×10^5	2×10^5	ND
		0.1	2×10^1	1.4×10^2	1×10^4	2×10^4	ND
	Extracellular	10	1×10^3	2.1×10^2	5×10^5	7.7×10^4	ND
		1	6×10^1	8×10^1	1×10^3	4.5×10^3	no CPE
		0.1	1×10^1	1×10^1	2×10^1	1×10^2	no CPE

Expt. # 3 :-

Viral Protein

Seed MP24

Infect \bar{c} viruses R8308 and R8306.

Used both DS4MG & UAS1MG cells.
moi of virus used = 10

Run SDS-PAGE

Immunoblot \bar{c} adf, gc.

29C

IL-4 IL-10 F		IL-4 IL-10 F
(30H) u251HA		DS4HA (18HRS)



ICPα 27

IL-4 IL-10 F		IL-4 IL-10 F
u251HA		DS4HA
(30HRS)		(18HRS)

16-4 16-10 F
U251
30 Hrs

16-4 16-10 F
D54
18 Hrs

dgc 2ml/5m

16-4 16-10 F

16-4 16-10 F

ICP 27

U251
12 hrs

D54
12 hrs

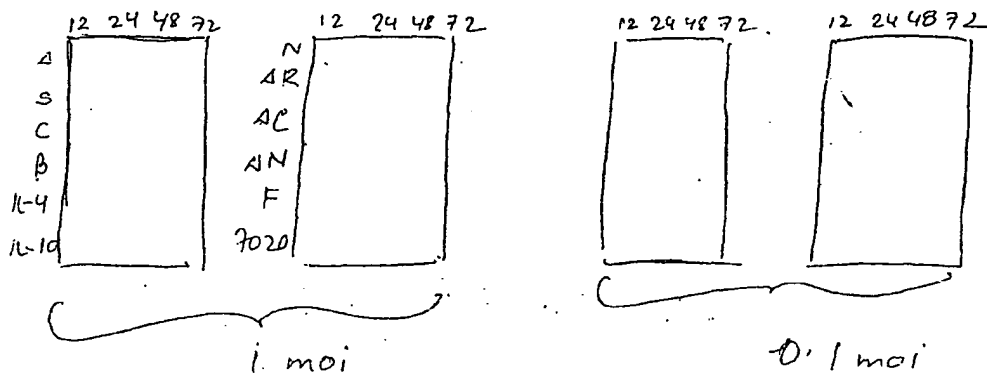
5ml/5ml

16-4 16-10 F

16-4 16-10 F

Expt. # 1 : Growth assay of all the viruses on
AL261 cells

Seed MP24 plates to 90% confluency
Infect 2 viruses at 36 hrs p.i.
0.1 & 1 moi.



$$\Delta = R3616$$

$$S = R4009$$

$$N = R939$$

$$\beta = R849$$

$$C = R939$$

$$NR = R939 R$$

$$CR = R939 R$$

$$1L4 = R8306 - a$$

$$1L10 = R8308$$

$$\# \text{ of cells} = 2 \times 10^5$$

$$\text{for } 0.1 \text{ moi } n = \frac{0.1 \times 2 \times 10^5}{1 \times 10^6} = 0.02 \text{ ml}$$

$$1 \text{ moi } n = \frac{1 \times 2 \times 10^5}{1 \times 10^6} = 0.2 \text{ ml}$$

Collect sup & cells = 1 ml each.
plaque assay.

Extracellular Replication of HSV-1(F) & mutants on G126/G1 at 1mer

Virus	12	24	48	72	96
R3616	2×10^1		1×10^1	2×10^1	3×10^1
R4009	5.8×10^3		1.6×10^3	1×10^2	3×10^2
R939	2.4×10^2	2×10^2	3×10^2	1×10^3	3×10^2
R849	2.1×10^2		1×10^1	3×10^1	3×10^1
R908	4.8×10^2		8×10^2	5×10^3	3×10^3
R8306	1.3×10^2		1×10^1	2×10^2	1.9×10^2
R8308	1.6×10^2		1.5×10^2	2.4×10^2	4×10^2
R3616(R)	1.7×10^2		3×10^2	3.7×10^3	7.2×10^1
R939(R)	1.8×10^2		5×10^2	1×10^3	2×10^1
R908(R)	7×10^1		1×10^2	1.8×10^3	3.6×10^1
F	2.2×10^3		3.5×10^3	2×10^4	2×10^1
7020	3×10^2 (?)		1×10^2	1.2×10^2	5.7×10^2

Intracellular Replication of HSV-1(F) & mutants on G126/G1 at 1/4

R3616	-			3×10^1	2×10^1
R4009	2.5×10^4 ?		4.4×10^2	3×10^1	1×10^1
R939	2.5×10^3		1.3×10^3	1×10^2	1×10^3
R849	6×10^2		4.3×10^2	2×10^2	2×10^2
R908	8×10^2		5.6×10^3	1×10^3	6×10^2
R8306	7×10^2		2×10^2	1×10^2	1×10^1
R8308	4×10^3		2×10^2	1.5×10^2	3×10^2
R3616(R)	1×10^3		2×10^4	3×10^3	1.3×10^4
R939(R)	1.2×10^2		8.4×10^2	7×10^2	2×10^2
R908(R)	3×10^3		2.8×10^3	4×10^3	2×10^3
F	4.5×10^4		8×10^4	3.7×10^4	1×10^5 ?
7020	9×10^1		6×10^1	1×10^2	5×10^2

Extracellular replication of HSV-1(F) & mutants on A1261 cells
 @ 10 mo

Virus	Yield PFU/ml.	
	3 days	5 days
R8616	3×10^1	-
R4009	3×10^3	3×10^2
R939	4.3×10^2	-
R8306		4.9×10^2
R8308	3×10^2	1.8×10^2
R849	3×10^2	-
R3616(R)	5×10^4	1×10^4
R939(R)	- no CPE	-
F	4×10^5	5×10^4

Intracellular replication of HSV-1(F) & mutants on A1261C			
Virus	Yield PFU/ml		5 days @ 10 mo
	3 days		
R3616	3×10^1		
R4009	3.4×10^2		
R939	6×10^1		
R8306	5×10^1		3×10^1
R8308	2×10^1		1×10^1
R849	2×10^1		1×10^1
R3616(R)			2×10^3
R939(R)	-		-
F	1×10^4		4×10^3

Extracellular Replication of HSV-1(F) mutants on GL261@5mo.

Virus	Yield PFU/ml	
	3 days	5 days
R3616	-	
R4009	5×10^2	3×10^2
R939	-	-
R8806	5×10^2	2×10^2
R8308	7.5×10^2	3×10^1
R849	- 3×10^2	-
R3616(R)	1×10^3	1×10^3
R939(R)	-	-
F	2.2 5×10^3	2×10^3

Intracellular Replication of HSV-1(F) mutants on GL261@5mo.

Virus	Yield PFU/ml	
	3 days	5 days
R3616	-	1×10^1
R4009	2×10^2	2×10^2
R939	4×10^1	2×10^1
R8806	1×10^1	2×10^1
R8308	2×10^1	
R849	1×10^1	-
R3616(R)	2.2×10^4	1×10^2
R939(R)	-	2×10^1
F	4×10^4	3.5×10^3

Kaplan-Meier Survival Plot For HSV-Interleukin Treated C57BL/6 Mice Bearing GI-261 Gliomas

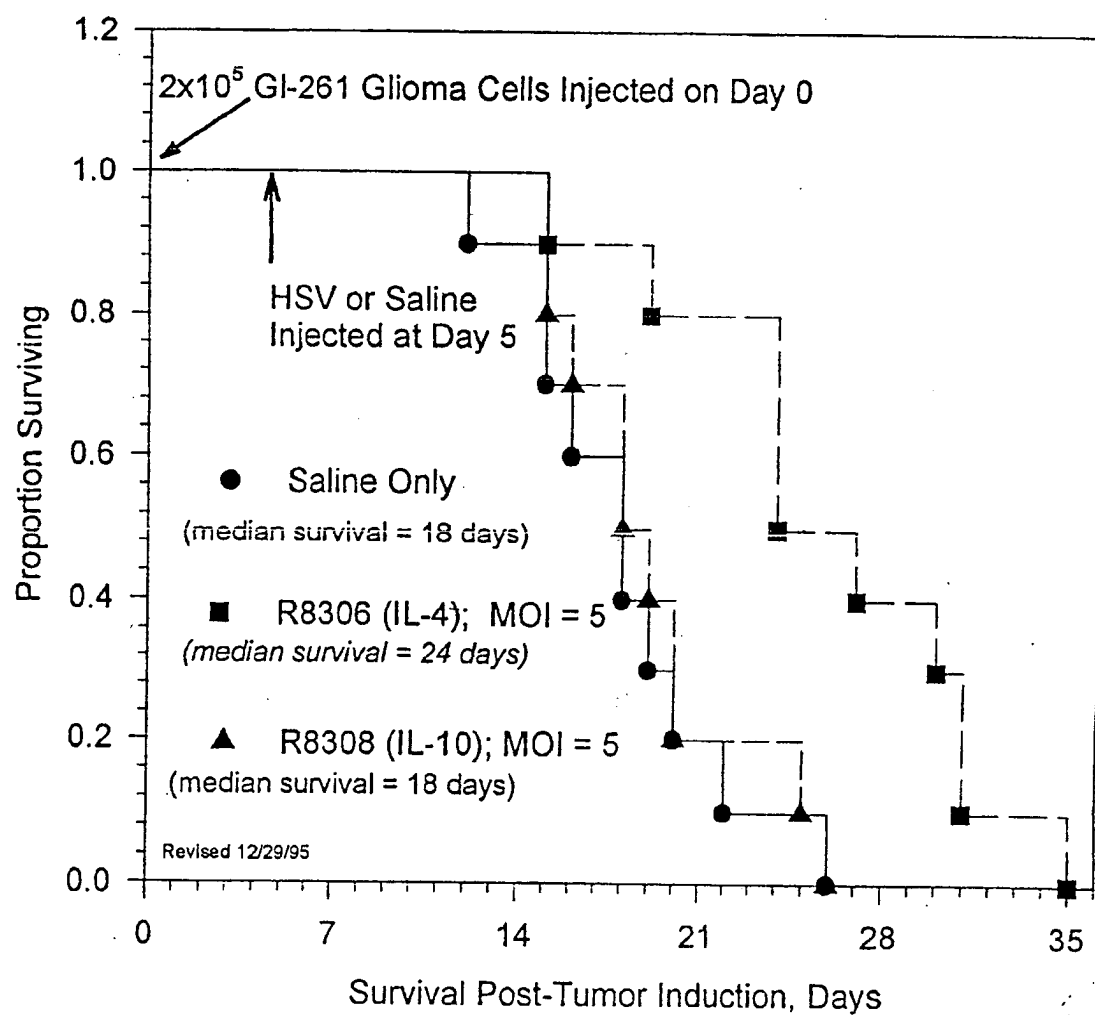


EXHIBIT B

CURRICULUM VITAE

Richard James Whitley, M.D.
Department of Pediatrics
University of Alabama at Birmingham
Suite CHB 303
1600 7th Avenue South
Birmingham, Alabama 35233
(205) 934-5316

DATE OF BIRTH

September 15, 1945

PLACE OF BIRTH

Newark, New Jersey

MARITAL STATUS

Married, four children
(Kevin 07/16/76, Christopher 02/16/81,
Jennifer 04/13/85 and Katherine 04/13/85)

EDUCATION

Nutley High School, Nutley, N.J., June, 1963.
Duke University, Durham, N.C.; May, 1967.
(Chemistry)

George Washington University School of Medicine,
Washington, D.C.; May, 1971. (M.D.)

POST GRADUATE TRAINING

1973-1976	Fellow, Department of Pediatrics, University of Alabama at Birmingham, Birmingham, Alabama (Special Fellowship NIAID #F22AI704)
1972-1973	Pediatric Resident, University of Alabama at Birmingham, Birmingham, Alabama
1971-1972	Pediatric Intern, University of Alabama at Birmingham, Birmingham, Alabama

PRESENT POSITION

2003-	Loeb Eminent Scholar Chair in Pediatrics; Professor of Pediatrics, Microbiology, Medicine and Neurosurgery; Director, University of Alabama Center for Biodefense and Emerging Infections;
-------	--

Director, Division of Pediatric Infectious Diseases;
Vice-Chairman, Department of Pediatrics;
Senior Scientist, Department of Gene Therapy;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research.
Faculty, Gene Therapy Center
University of Alabama at Birmingham, Birmingham,
Alabama

PAST POSITIONS

2002-2003

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology, Medicine
Director, University of Alabama Center for Biodefense and
Emerging Infections;
Director, Division of Pediatric Infectious Diseases;
Vice-Chairman, Department of Pediatrics;
Senior Scientist, Department of Gene Therapy;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research;
Faculty, Gene Therapy Center;
University of Alabama at Birmingham, Birmingham,
Alabama.

2001

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology and Medicine;
Director, Division of Pediatric Infectious Diseases;
Vice-Chairman, Department of Pediatrics;
Senior Scientist, Department of Gene Therapy;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research;
Faculty, Gene Therapy Center;
University of Alabama at Birmingham, Birmingham,
Alabama.

2000

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology and Medicine;
Director, Division of Pediatric Infectious Diseases;
Vice-Chairman, Department of Pediatrics;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research;
Faculty, Gene Therapy Center;

University of Alabama at Birmingham, Birmingham,
Alabama.

1994-1999

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology and Medicine;
Vice-Chairman, Department of Pediatrics;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research;
Faculty, Gene Therapy Center;
University of Alabama at Birmingham, Birmingham,
Alabama.

1993

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology and Medicine;
Scientist, Cancer Research and Training Center;
Associate Director for Clinical Studies, Center for AIDS
Research;
Vice-Chairman, Department of Pediatrics;
University of Alabama at Birmingham, Birmingham,
Alabama.

1992

Loeb Eminent Scholar Chair in Pediatrics;
Professor of Pediatrics, Microbiology and Medicine;
Scientist, Cancer Research and Training Center;
Associate Director, Center for AIDS Research;
Vice-Chairman, Department of Pediatrics;
University of Alabama at Birmingham, Birmingham,
Alabama.

1990-1991

Professor of Pediatrics, Microbiology and Medicine;
Scientist, Cancer Research and Training Center;
Associate Director, Center for AIDS Research;
Vice-Chairman, Department of Pediatrics;
University of Alabama at Birmingham, Birmingham,
Alabama

1989-1990.1

Professor of Pediatrics, Microbiology and Medicine;
Scientist, Cancer Research and Training Center;
Associate Director, Center of AIDS Research;
University of Alabama at Birmingham, Birmingham,
Alabama

1987-1989

Professor of Pediatrics, Microbiology;

Scientist, Cancer Research and Training Center;
Associate Director, Center of AIDS Research;
University of Alabama at Birmingham, Birmingham,
Alabama

1985-1987 Professor of Pediatrics, Microbiology;
Scientist, Cancer Research and Training Center;
Director, Clinical Research Unit;
University of Alabama at Birmingham, Birmingham,
Alabama

1984-1985 Professor of Pediatrics, Associate Professor of
Microbiology;
Scientist, Cancer Research and Training Center;
Director, Clinical Research Unit;
University of Alabama at Birmingham, Birmingham,
Alabama

1983-1984 Professor and Acting Chairman, Department of Pediatrics;
Associate Professor of Microbiology;
Scientist, Cancer Research and Training Center;
Director, Clinical Research Unit;
University of Alabama at Birmingham, Birmingham,
Alabama

1981-1983 Professor and Vice Chairman, Department of Pediatrics;
Associate Professor of Microbiology;
Scientist, Cancer Research and Training Center;
Director, Clinical Research Unit; University Hospital;
University of Alabama at Birmingham, Birmingham,
Alabama

1978-1980 Associate Professor of Pediatrics, Assistant Professor of
Microbiology;
Scientist, Cancer Research and Training Center;
Director, Clinical Research Unit; University Hospital;
University of Alabama at Birmingham, Birmingham,
Alabama

1977-1978 Assistant Professor of Pediatrics and Microbiology;
Associate Scientist, Cancer Research and Training Center;
University of Alabama at Birmingham, Birmingham,
Alabama

1976-1977 Assistant Professor Pediatrics and Microbiology;

1976-1978

University of Alabama at Birmingham, Birmingham,
Alabama**EDITORIAL BOARDS**

1987-Present	Editor, Antiviral Research.
1985-1991	Section Editor, Intervirology.
1988-Present	Editorial Board, Journal Infectious Diseases.
2004-Present	Associate Editor, Journal of Infectious Diseases
1989-1997	Editorial Board, Pediatric Infectious Diseases Journal.
1990-Present	Editorial Board, Sexually Transmitted Diseases.
1990-Present	Editorial Board, Reviews in Medical Virology.
1991-1997	Editorial Board, Pediatrics
1991-Present	Editorial Board, Antimicrobial Agents and Chemotherapy
1991-1999	Editorial Board, Infectious Diseases in Clinical Practice
1991-1998	Senior Editor, Infectious Agents and Disease
1992-1998	Editorial Advisory Board, Virus and Life
1993-Present	Editorial Advisory Board, Infectious Diseases Watch for Pediatricians
1994-Present	Editorial Board, Herpes
1994-Present	Editorial Board, Antiviral Chemistry and Chemotherapy
1995-Present	Section Editor, Antiviral Therapy
1997-Present	Editorial Board, Seminars in Pediatric Infectious Diseases
1995-Present	Editorial Board, Gene Therapy
1999-2002	Editorial Advisory Board, Medscape Infectious Disease
2001	External Review Board, Glaser Pediatric Research Network (GPRN)
2002	APGO Educational Series on Women's Health Issues: Sexually Transmitted Infections
2003-Present	Editorial Board, Reviews in Infectious Diseases
2005-Present	Editorial Board, Human Gene Therapy
2005-Present	Editorial Advisory Panel, Future Virology
2005-Present	Editorial Board, Current Opinion in Infectious Diseases

AWARDS AND HONORS

1967	Dean's Scholar
1967	Who's Who in American Colleges and Universities
1971	William Beaumont Research Society

1972	Best Teaching Intern, University of Alabama at Birmingham, School of Medicine
1974	Commencement Speaker, Graduation
1977	Award of Commendation, Board of Trustee, University of Alabama at Birmingham
1981	Society for Pediatric Research
1981	Infectious Diseases Society
1982	Alpha Omega Alpha
1982	Arnold Welch Visiting Professor of Pharmacology (Yale University)
1983	Award of Commendation, Board of Trustees, The Children's Hospital, Birmingham, Alabama
1983	Transplantation Society, 1983-present.
1986	Who's Who in America
1989	Elected American Society for Clinical Investigation
1990	Wellcome Visiting Professor (The University of Cincinnati)
1991	Pediatric Infectious Diseases Journal Visiting Professor (Duke and The University of North Carolina)
1991	Award for Excellence in Pediatric Research, American Academy of Pediatrics (Former Mead Johnson Award)
1991	Canon Eley Lecturer, Harvard School of Medicine, Children's Hospital; Boston, Massachusetts
1991	Best Doctors in America
1991	Elected American Pediatric Society
1992	S. Stanley Schneierson Memorial Lecturer, Mt. Sinai Medical Center
1992	Erwin Netter Memorial Professor, University of Buffalo
1992	MacLaughlin Visiting Professor, University of Texas, Galveston
1993	Best Doctors in America
1994	Bristol Myers Squibb Unrestricted Grant Award (1994-1999)
1994	Tinsley Harrison Award (University of Alabama at Birmingham)
1994	Achievement Award, International Antiviral Research Symposium, Nice, France
1995	Best Doctors in America
1996	Best Doctors in America
1996	Elected, Association of American Physicians
1996	Clinical Virology Award, Pan American Society for Virology

1997	Elected Fellow, American Academy of Microbiology
1998	March of Dimes Visiting Professor, New York Chapter
1998	Award for Distinguished Scientific Accomplishment, International Society for Antiviral Research
1998	Chairman's Award, Department of Pediatrics, University of Alabama
1998	Distinguished Faculty Lecturer, University of Alabama at Birmingham
1999	Ashley Weech Visiting Professor, University of Cincinnati
1999	Robert Ward Visiting Professor, University of Southern California
1999	Best Doctors in America
2000	Distinguished Alumnus Award, The Children's Hospital of Alabama, The university of Alabama at Birmingham
2000	Hugh C. Dillon Memorial Lecturer, University of Alabama at Birmingham
2000	Appointed, Board of Scientific Counselor for NIAID, Co- chair
2000	John Enders Lecturer, Infectious Diseases Society of America
2000	Aventis Award, American Society of Microbiology
2001	John Soothill Lecture. University of York, England
2001	American Association Pharmaceutical Physicians Distinguished Service Award
2001	Medical Student Research Day Lecturer, University of Alabama at Birmingham
2001	Best Doctors in America
2003	Pediatric Research Day Visiting Professor, Mount Sinai, New York, New York
2003	Nominee for the Association of American Medical College, The Pfizer Medical Humanities Initiative
2003	Appreciation of Outstanding Contribution and Efforts in Support of the NIAID Mission, Bethesda, Maryland
2004	President's Award for Excellence in Teaching
2004	Gertrude Elion Memorial Lecture Award, International Society for Antiviral Research, Tuscon, Arizona
2005	Pfizer Visiting Professor, University at California at Davis
2005	Ralph E. Tiller, M.D., Distinguished Faculty Award, University of Alabama at Birmingham, Department of Pediatrics
2005	Argus Award, Best Pediatrics Attending, University of Alabama at Birmingham, Department of Pediatrics

2005	Distinguished Lecture Series, University of Utah, Salt Lake City, Utah
2005	Visiting Professor, University of California at Davis, California
2005	Best Doctors in America
2005	Guide to America's Top Physicians

**MEDICAL LICENSURE
AND CERTIFICATION**

1994 American Board of Pediatrics,
Recertification
1994 American Board of Pediatrics,
Subspecialty: Infectious Diseases
Pediatric Board Certification, 1976
Diplomate American Board Medical Examiners,
1973 Alabama (License #6475)
Staff Physician, The Children's Hospital,
Birmingham, Alabama
Staff Physician, University of Alabama at
Birmingham Hospitals and Clinics,
Birmingham, Alabama.

SOCIETIES

American Society for Microbiology
Jefferson County Medical Society
American Medical Association
Jefferson County Pediatric Society
Executive Committee, 1976-1985
President, 1984-1985.
American Academy of Pediatrics
Society of Health and Human Values
American Society for Virology
Pediatric Infectious Diseases Society
Phi Beta Delta Honor Society, 1992
American Society of Gene Therapy (ASGT), 1997
Society of Pediatric Research
American Pediatric Society

NATIONAL COMMITTEES

ICAAC Program Committee, 1988-1991; 1991-1994.
Mead Johnson Award, American Academy of
Pediatrics, 1982-1985
Chairman, 1984-1985
NIH Virology Study Section, 1985-1989

NIH AIDS Executive Advisory Committee, 1986-1987
NIH AIDS Clinical Trials Committee, 1987
NIH AIDS Data Safety & Monitoring Board, Chairman, 1987-1995
FDA/IDSA Treatment Guidelines Committee, 1989-1990
American Society for Virology, Council, 1989-1991
NIH NIAID DMID Advisory Committee, 1990-1991
Program Committee - Infectious Disease Society's Scientific Program, 1992, 1993
American Board of Pediatrics, Sub-Board Infectious Diseases, 1991-1998
Review Committee, Clinical Research, National Foundation March of Dimes, 1994-2000
Subcommittee of Medical Knowledge Self-Assessment Program in the Subspecialty of infectious Diseases, American College of Physicians, 1992-1994
Chair, International Herpes Management Forum, 1993-Present
SOCA, Data Policy Committee, 1993-Present
Office of AIDS Research Executive Advisory Committee, 1995-1998
United States Pharmacopeial (USP) Committee of Revision, 1995-2000
American Academy of Pediatrics Committee on Infectious Diseases, 1995-2000
National Institute of Health--OAR
Clinical Trials Area Review Panel, Chair, 1995-1996
National Board of Medical Examination, 1995-1998
Council, Infectious Diseases Society of America, 1996-1999
National Advisory Committee—"Stopping the Spread of Herpes Campaign" ASHA, 1998-2001
Chair, VA-VZV Vaccine DSMB, 1999-Present
March of Dimes Foundation, Basil O'Connor Award Committee, 2000-2006
Immunizing Agents Expert Committee for United States Pharmacopeial (USP), 2000-Present
NIH/NIAID Board of Scientific Counselors 2000-2005
ID Web Advisory Board Member, 2001
Committee on Infectious Diseases, Chicago, 2001
FDA/CBER Committee for Vaccine Evaluation, 2001-Present
Bionet Working Group Meeting, Bethesda, MD, 2002.

Drug Information Association (DIA). Data Monitoring Committee/Institutional Review Board Conference, Bethesda, MD, 2002
Co-Chair, Virology Section, National Institute of Allergy and Infectious Diseases Blue Ribbon Panel on Bioterrorism, 2002
Chair of Pathogenesis and Host Response Mechanisms Fellowship Recruitment Committee, American Academy of Microbiology, 2002-2005
Chair, Board of Scientific Councilors, National Institute of Allergy and Infectious Diseases, 2002-2005
IDSA Program Committee, 2003 Annual Meeting, San Diego, CA, 2003
IDSA, Vice Chair, Annual Meeting, Boston, MA, 2004.
Center for Biodefense and Emerging Infections Advisory Committee, 2004
RCE Small Molecule Screening Advisory Committee, 2004-
IDSA Program Committee Chair, 2005 Annual Meeting, San Francisco, CA
Board of Scientific Councilors, National Center for Infectious Diseases, Centers for Disease Control and Prevention, 2005-

INTERNATIONAL COMMITTEES

International Society for Antiviral Research, President, 1988-1990
Board of Directors, International Society for Antiviral Research, 1988-Present
Chair, International Program Committee, International Society for Antiviral Research, 1988-Present
Council, International Society for Infectious Diseases, 1996-2002
Advisory Committee for the International Congress of Virology, 2000

UNIVERSITY COMMITTEES

Comprehensive Cancer Review, 1977-1980, 1984-1987, 1988-1991
Faculty Council, 1980-1984
Chairman, 1983-1984
Joint Faculty Sciences Committee, 1985-present
Self-Study, Research Subcommittee, 1982-1983.

Faculty Search Committees
Radiology, 1981-1982
Microbiology, 1982, 1985
Genetics (Chair), 1996
Dean, 2003-2004
Medicine, 2004-2005
Comprehensive Cancer Center Advisory, 1982
Clinical Pharmacology Advisory, 1982
Department of Pediatrics
Housestaff Selections, 1978-Present
Faculty Promotions, 1980-Present
Department of Microbiology
Faculty Promotions, 1984-1987
Faculty Council, 1992-1995
Executive Committee, Comprehensive Cancer Center,
1992-Present
University Grievance Committee, 1993-Present
Obstetrics & Gynecology Search Committee, 1994
School of Medicine Research Advisory Committee,
1994-1998
University Research Advisory Group, 1995-Present
Ireland Award for Scholarly Distinction Committee, 1999-
2002
Interdisciplinary Advisory Committee (IAC) of the UAB
Center for Disaster Preparedness (CDP), 2001-Present
Office of Grants and Contracts Administration Oversight
Committee, Chairman, 2003-Present

CHILDREN'S HOSPITAL

Critical Care, 1979-1999
Co-Chairman, 1983
Infection Control, 1982-1998
Co-Chairman, 1984-1998
Board of Trustees Development Committee, 1983-present
Medical Executive Committee, 1983-present
Hospital Task Force, 1987-1988
TCH Research Institute Committee, 1997-Present
CHS Research and Education Committee, 2000-Present

CIVIC ORGANIZATIONS

Alabama School of Fine Arts Board,
1982-1990
Tampa Bay Research Institute, Board of Trustees, 2003-
present

PATENTS

Weichselbaum R, Roizman B, Whitley RJ, Newman PNI. Treatment of tumors with genetically engineered herpes virus. Publication No. US-2002-0019362-A1. February 14, 2002

Whitley RJ, Markert JM, Gillespie GY, Parker JN. Herpes simplex virus expressing foreign genes and method for treating cancers therewith. US Patent 6,764,675. July 20, 2004

**ORGANIZING COMMITTEES
FOR NATIONAL AND
INTERNATIONAL MEETINGS**

American Society for Clinical
Investigations, Washington, D.C., 1983
Second International Conference on
Immunobiology and Prophylaxis of Human
Herpesvirus Infections, Ft. Lauderdale, FL,
1985
Society for Pediatric Research, Washington,
D.C., 1985
Eleventh International Herpesvirus Workshop,
Leeds, England, 1986
Vaccine Workshop, 26th Interscience
Conference on Antimicrobial Agents and
Chemotherapy, New Orleans, LA, 1986
Antiviral Workshop, 26th Interscience
Conference on Antimicrobial Agents and
Chemotherapy, New Orleans, LA, 1986
Third International Conference on
Immunobiology and Prophylaxis of Human
Herpesvirus Infections, Marcos Island, FL,
1986
International Conference on AIDS in
Children, Adolescents, and Heterosexual
Adults: An Interdisciplinary Approach to
Prevention, Atlanta, GA, 1987
International Society for Antiviral
Research, Williamsburg, VA, 1988
Vaccine Workshop, 29th Interscience Conference on

Antimicrobial Agents and Chemotherapy, Houston, TX, 1989

Fourth International Conference on Immunobiology of Prophylaxis and Human Herpesvirus Infections, Japan, 1989

Third International Conference on Antiviral Research, Brussels, 1990

Fourth International Conference on Antiviral Research, New Orleans, 1991

Fifth International Conference on Immunobiology and Prophylaxis of Human Herpesvirus Infections, Tampa, Florida, 1991

Fifth International Conference on Antiviral Research, Vancouver, 1992

NIH/CDC Meeting, March, 1992

Sixth International Conference on Antiviral Research, Venice, Italy, 1993

National Academy of Sciences Colloquium on Changes in Human Ecology and Behavior: Effects on Infectious Diseases, Washington, D.C., September, 1993

Sixth International Conference on Immunobiology and Prophylaxis of Human Herpesvirus Infections, Sapporo, Japan, 1993

First IHMF Annual Meeting Co-Organizer, Monte Carlo, 1993

Second IHMF Annual Meeting Co-Organizer, San Francisco, 1994

Antiviral Resistance Meeting, Bermuda, December 8-11, 1994

Seventh International Conference on Antiviral Research, Santa Fe, NM, 1995

Seventh International Conference on Immunobiology and Prophylaxis of Herpesvirus Infections, Tampa, FL, 1995

Third IHMF Annual Meeting Co-Organizer, Istanbul, Turkey, 1995

American Academy of Pediatrics, Committee on Infectious Diseases, Red Book Review Meeting, Chicago, IL April 13-14, 1996

Eighth International Conference of Antiviral Research, Utsunomiya, Japan, 1996

Fourth IHMF Annual Meeting Co-Organizer, Barcelona, Spain, 1996

Eighth International Conference on Immunobiology and Prophylaxis of Herpesvirus Infections, Mishima, Japan,

1997

Ninth ISAR Meeting, Japan, 1997

Fifth IHMF Annual Meeting Co-Organizer, Cannes, France, 1997

Tenth ISAR Meeting, Atlanta, GA, 1998

Sixth IHMF Annual Meeting Co-Organizer, Marrakech, Morocco, 1998

Ninth International Conference on Immunobiology and Prophylaxis of Herpesvirus Infections, Ciscoco, Italy, 1999

Eleventh ISAR Meeting, San Diego, CA, 1999

Twelfth ISAR Meeting, Jerusalem, Israel, 1999

Seventh IHMF Annual Meeting Co-Organizer, Seville, Spain, 1999

Thirteenth ISAR Meeting, Baltimore, MD, 2000

Tenth International Conference on Immunobiology and Prophylaxis of Herpesvirus Infections, 2000

Eighth IHMF Annual Meeting Co-Organizer, St. Julian Bay, Malta, 2000

Fourteenth ISAR Meeting, Seattle, WA, 2001

IHMF 2001 Workshop Co-Organizer. San Diego, CA. March 6-7, 2001

Keystone Symposia on Molecular and Cellular Biology Co-Organizer. "Control of Viral Latency and Persistence", Breckenridge, CO, March, 2001

ECCMID, Istanbul, Turkey, April 1, 2001

14th International Conference of Antiviral Research. Seattle, WA, April 7-13, 2001

LAMIDS meeting chairman, Louisiana. "Herpes Simplex Virus Infections of the CNS" lecture, April 20-22, 2001

4th Annual Conference on Vaccine Research. Arlington, VA., "Engineered Herpes Simplex Vaccine Implications Viruses Expressing IL-12 or GM-CSF: Gene Therapy and vaccine Implications", April 23-25, 2001

IHMF 2001 Workshop, Berlin, Germany, June 28-29, 2001

Keystone Symposia for the Identification and Development of Novel Antimicrobial Agents B1. Santa Fe, NM January 31 – February 5, 2002

IHMF CNS Workshop, Denver, Colorado, April 21-22, 2002

IHMF Transmission of HSV Workshop, San Diego, California, September 25, 2002

The American Herpes Foundation Train the Trainers Program 2002. Neonatal HSV. Management of VZV infections in pregnancy. Management of congenital CMV. October 10-11, 2002

Workshop for Therapeutics for West Nile Virus.
 Washington, D.C., November 20-21, 2002
 Conflicts and Controversies in the Operation of Clinical
 Trials Monitoring Committee, Washington, D.C., January
 16-18, 2003
 IHMF Annual Meeting, Paris, France, February 26-March
 2, 2003
 IHMF Workshop, Organizing Committee, Seattle,
 Washington, May 5-6, 2003
 National Foundation for Infectious Diseases, Scientific
 Program Committee of the 2003 Annual conference on
 Antimicrobial Resistance, Bethesda, Maryland, June 23-
 25, 2003
 IHMF Annual Meeting, Amsterdam, The Netherlands,
 February 24-March 1, 2004
 First Annual RCE Meeting, Bethesda, Maryland, April 20-
 21, 2004 International Conference of Antiviral
 Research. Gertrude Elion Memorial Lecture Award,
 Tucson, AZ, May 3-6, 2004
 IDSA Chairs Planning Meeting, Jackson Hole, Wyoming,
 June 25-26, 2004
 SERCEB Annual Meeting, Birmingham, Alabama, October
 20-22, 2004
 ISAR Meeting, Barcelona, Spain, April 10-14, 2005
 ICAAC, New Orleans, Louisiana, September 21-24, 2005.
 IDSA Meeting, San Francisco, California, October 6-9,
 2005.
 SERCEB Annual Meeting, Chapel Hill, North Carolina,
 October 10-12, 2005
 Twelfth IHMF Annual Meeting, Lisbon, Portugal, October
 28-30, 2005.
 Second Annual RCE Meeting, Galveston, TX, March 12-
 15, 2005.

BOOK EDITORS/CO-EDITORS

Antiviral Agents and Viral Diseases of Man.
 Galasso G, Merigan TC, and Whitley RJ, Editors. Raven
 Press, 1990

*Immunobiology and Prophylaxis of Human
 Herpesvirus Infections.* Lopez C, Mori R, Roizman B,
 and Whitley RJ, Editors. Plenum Publishing Corporation,
 1990

Infections of the Central Nervous System. Scheld WM, Durack DT, and Whitley RJ, Editors. Raven Press, 1991

Seminars in Pediatric Infectious Diseases. Feigin RD and Whitley RJ, Editors. W. B. Saunders Company, 1991

The Human Herpesviruses: Biology, Pathogenesis and Treatment. Roizman B, Whitley RJ, and Lopez C, Editors. Raven Press, 1993

Practical Diagnosis of Viral Infections. Galasso G, Whitley RJ, and Merigan TC, Editors. Raven Press, 1992

Acyclovir: The Landmark Papers. Whitley RJ and Gnann J, Editors. Science Press, 1993

A Color Atlas of Herpesviruses Infections. Vols 1-6. Whitley RJ, Hayden FG, Richman DD, Editors. Churchill Communications Japan, 1996

Clinical Virology. Richman DD, Whitley RJ, Hayden FG, Editors. Churchill Livingstone, 1997

Antiviral Agents and Viral Diseases of Man. Galasso G, Merigan TC, and Whitley RJ, Editors. Lippincott-Raven Publishers, 1997

Infections of the Central Nervous System. Scheld WM, Durack DT, and Whitley RJ, Editors. Lippincott-Raven Publishers, 1997

Optimizing the Management of Genital Herpes. Whitley RJ, Editor. The Royal Society of Medicine Press Ltd, 2000

Clinical Virology. Richman DD, Whitley RJ, Hayden FG, Eds. ASM Press, 2002

A Practical Guide to Clinical Virology, 2nd Edition. Haaheim L, Pattison J, Whitley R, Eds. Wiley & Sons, Ltd. West Sussex, England, 2002

Antibiotic and Chemotherapy, 8th Edition. Finch RG, Greenwood D, Norrby SR, Whitley RJ, Eds., Churchill Livingstone, Philadelphia, Pennsylvania, 2003

Infections of the Central Nervous System. Scheld WM, Mara, C. and Whitley RJ, Editors. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania. 2004.

Human Herpesvirus: Biology, Therapy & Immunoprophylaxis. Whitley RJ. In: Arvin AM, Roizman B, Whitley R, Mocarski E, Campadelli-Fiume G, Yamanishi K. Cambridge University Press, Philadelphia, PA. In Press

GUEST EDITOR

Whitley RJ. Update on antiviral therapy. *Semin Pediatr Infect Dis* 2, 1991

Whitley RJ. New approaches to the treatment of cytomegalovirus retinitis. *J Acquir Immune Defic Syndr Hum Retrovirol.* 14, 1997

Whitley RJ. CMV 2000: The Year in Review. 5, 2001

Whitley RJ. Extending the boundaries of herpesvirus infections: Advances of therapy. *J Infect Dis.* 186 (Suppl 1), 2002

Whitley R. Herpes. 11(Suppl 2), 2004

Whitley RJ and Pass RF. Congenital CMV infection. *The Herpes Monitor.* 4, 2004

Whitley RJ, Kimberlin DW. *Semin Pediatr Infect Dis* 2005

Federal Site Visits and Consultations:

1. Ara-AMP Contractor's Meeting, Bethesda, Maryland, September 1, 1976.
2. Infectious Diseases Committee Meeting, Bethesda, Maryland, October 1, 1976.
3. Project Officers Meeting, NIH, Bethesda, Maryland, April 22, 1977.
4. NIH Clinical Center, Bethesda, Maryland, June 1-3, 1977.
5. NIH Antiviral Substances Program Contractor's Meeting, New York, October 13, 1977.
6. NIH Contractor's Meeting, Bethesda, Maryland, November 17-18, 1977.
7. NIH Herpesvirus Workshop, Bethesda, Maryland, December 2, 1977.
8. Microbiology and Infectious Diseases Advisory Committee, Ad Hoc Reviewer, May 31, 1978.
9. Workshop on Development of Antivirals, NIH; Bethesda, Maryland, June 29-30, 1978.
10. NIAID Antiviral Substances Program Annual Contractor's Meeting, Atlanta, Georgia, October 3, 1978.
11. Joint discussion with NIH and Burroughs Wellcome and Company, Durham, North Carolina, November 29-December 1, 1978.
12. Mount Sinai School of Medicine Site Visit, NCI, New York, March 7-9, 1979.
13. NIH Contractor's Meeting, Bethesda, Maryland, June 25-27, 1979.
14. Clinical Research Subpanel, Bethesda, Maryland, January 7, 1980.
15. Stanford University Site Visit, NIAID, Palo Alto, California, June 23-25, 1980.
16. NIH Antiviral Therapy of Chronic Active Hepatitis B, Bethesda, Maryland, September 9-11, 1980.
17. NIH Control of Genital Herpes Simplex Virus Infections, Bethesda, Maryland, February 2-3, 1981.
18. Microbiology and Infectious Diseases Advisory Committee, Ad Hoc Reviewer, Dallas, Texas, March 6, 1981.
19. NIH Genital Herpes, Bethesda, Maryland, May 12-13, 1981.

20. University of Minnesota clinical Research Center Site Visit, Minneapolis, Minnesota, October 6-7, 1981.
21. University of California in Los Angeles Site Visit, Los Angeles, California, May 18-19, 1982.
22. Beth Israel Hospital Site Visit, Boston, Massachusetts, June 3-4, 1982.
23. Microbiology and Infectious Diseases Advisory Committee, NIH, Bethesda, Maryland, June 27-29, 1982.
24. University of Washington in Seattle Site Visit, Seattle, Washington, September 29-30, 1982.
25. Special Study Section Meeting, NIH, Bethesda, Maryland, December 15-18, 1982.
26. University of California in Los Angeles Site Visit, Los Angeles, California, February 29-March 1, 1983.
27. University of California, San Francisco Site Visit, San Francisco, California, March 2-4, 1983.
28. University of New York Medical Center Site Visit, New York, New York, March 13-15, 1983.
29. NIH Conference Call. Dr. Robert E. Slitzel, Chairperson, November 7, 1983.
30. NIH Ad Hoc Committee, Dr. Richard J. Whitley, Chairperson, Bethesda, Maryland, March 16, 1984.
31. American Cancer Society Site Visit, Chapel Hill, North Carolina, April 18, 1984.
32. Source Selection Meeting, NIH, Bethesda, Maryland, May 30, 1984.
33. Food and Drug Administration, Clinical Use of Oral Acyclovir in Normal Host, November 29, 1984.
34. NIAID Workshop, "Evaluation of Antivirals and Interferon in Herpesvirus Animal Models", NIH, Bethesda, Maryland, May 16-17, 1985.
35. Virology Study Section, NIH, Bethesda, Maryland, June 6-8, 1985.
36. Virology Study Section, NIH, Bethesda, Maryland, October 10-12, 1985.

37. Virology Study Section, NIH, Bethesda, Maryland, March 6-8, 1986.
38. University of Rochester Site Visit, Rochester, New York, May 8-9, 1986.
39. Virology Study Section, NIH, Bethesda, Maryland, June 11-13, 1986.
40. NIAID Workshop, "AIDS Vaccines", NIH, Bethesda, Maryland, July 28-29, 1986.
41. University of Colorado Site Visit, Denver, Colorado, August 28-29, 1986.
42. Virology Study Section, NIH, Bethesda, Maryland, October 16-17, 1986.
43. Virology Study Section, NIH, Bethesda, Maryland, March 4-6, 1987.
44. Virology Study Section, NIH, Bethesda, Maryland, June 25-27, 1987.
45. Virology Study Section, NIH, Bethesda, Maryland, October 8-10, 1987.
46. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, December 15-18, 1987.
47. Virology Study Section, NIH, Bethesda, Maryland, February 26-28, 1988.
48. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, March 28, 1988.
49. AIDS Advisory Committee, Washington, D.C., July 7-8, 1988.
50. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, September 3, 1988.
51. National Cooperative Drug Discovery Group Meeting, San Francisco, California, November, 1988.
52. Virology Study Section, NIH, Bethesda, Maryland, February 23, 1989.
53. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, March 3, 1989.
54. Drug Review Aids Program, Bethesda, Maryland, April 10, 1990.
55. Antiviral Data, Safety, Monitoring Committee Meeting, May 9-10, 1989.
56. NIH Clinical Research Meeting, Bethesda, Maryland, May 15-16, 1989.
57. Virology Study Section, NIH, Bethesda, Maryland, June 15-16, 1989.
58. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, August 2-3, 1989.

59. National Institute Child Health Development Meeting. Review of SIDS Proposal. Bethesda, Maryland, August, 1989.
60. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, November 2, 1989.
61. CDC/IDSA CMV Workshop, Centers for Disease Control, Atlanta, Georgia, January 22-23, 1990.
62. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, February 1-2, 1990.
63. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, May, 1990.
64. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, August 1, 1990.
65. Advisory Council for NIAID, September 24-25, 1990.
66. NIAID IFDA Resistance Meeting, October 1-2, 1990.
67. NIAID Collaborative Antiviral Study Group Meeting, October 3-4, 1990.
68. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, November 10-11, 1990.
69. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, February 10-11, 1991.
70. NIAID Collaborative Antiviral Study Group Meeting, Bethesda, Maryland, February 12, 1991.
71. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, May 1-2, 1991.
72. NIAID Collaborative Antiviral Study Group Meeting, Bethesda, Maryland, June 25, 1991.
73. NIAID STD Vaccine Workshop, Hamilton, Montana, July 29 - August 2, 1991.
74. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, August 28-29, 1991.
75. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, November 7-8, 1991.
76. FDA Combination Therapy Meeting, Rockville, Maryland, November 18 - 21, 1991.

77. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, February 13-14, 1992.
78. Fifth National Forum on AIDS, Hepatitis, and Other Blood-Borne Diseases, Atlanta, Georgia, March 29-April 1, 1992.
79. AIDS Data, Safety, Monitoring Board Meeting, Bethesda, Maryland, May 7-8, 1992.
80. ICAAC Committee Meeting, Washington, DC, June 4-5, 1992.
81. NIH/FDA Advisory Committee Review of Ribavirin, Bethesda, Maryland, June 30, 1992.
82. AIDS Data, Safety, Monitoring Board Meeting, Washington, DC, August 20-21, 1992.
83. AIDS Data, Safety, Monitoring Board Meeting, Washington, DC, November 16-17, 1992.
84. CDC, STD Treatment Guidelines Committee, Atlanta, Georgia, January 19-21, 1993.
85. NIAID/DSMB Meeting, Washington, D. C., February 11-12, 1993.
86. NIH/DRG Pathogenesis Study Section Consent Review, Washington, D.C., May 12, 1993.
87. NIAID/DSMB Meeting, Washington, D. C., May 20-21, 1993.
88. NIAID/CDC Hantavirus Committee, August, 1993.
89. NIAID/DSMB Meeting, Washington, D. C., September, 1993.
90. NIAID/DSMB Meeting, Washington, D. C., November, 1993.
91. NIAID/CASG, Bethesda, Maryland, December, 1993.
92. NIH Reunion Task Force, Mind/Body Interactions and Psychoneuroimmunological Aspects of Health and Disease, Washington, D. C., Jan. 12-14, 1994
93. NIAID DSMB, Washington, D. C., February 17-18, 1994.
94. NIAID Adolescents and STD, April 12-14, 1994.
95. NIAID/DSMB Meeting, Washington, D. C., May 17-18, 1994.
96. Update, CDC/NIH/IDSA, AIDS OI Committee, Atlanta, Georgia, September 26-27,

1994.

97. NIAID/DAIDS, Statistical Issues in HIV/AIDS Research Symposium, Bethesda, Maryland, June 12-13, 1995.
98. NIH AIDS Program Evaluation Work Group Meeting, Bethesda, MD, August 10-11, 1995.
99. NIH/DMID Adolescents and STD Meeting, August 14-16, 1995.
100. OAR Meeting, Clinical Trials, Bethesda, MD, September 28, 1995.
101. OAR Meeting, Clinical Trials, Bethesda, MD, October 10-11, 1995.
102. NIH AIDS Program Evaluation Working Group, Bethesda, MD, October 12-13, 1995.
103. NIH/DMID Focus Group Meeting, Bethesda, MD, December 8, 1995.
104. Institute of Medicine Vaccine Advisory Committee, December 11, 1995.
105. NIH/DMID Adolescents and STD Meeting, Bethesda MD, January 22, 1996.
106. NIH AIDS Program Evaluation Work Group Meeting, Bethesda, MD, February 15-16, 1996.
107. NIH AIDS Research Program Evaluation Clinical Trials Area Review Panel.
108. NIH OAR Research Advisory Council, Rockville, MD, March 13, 1996
109. NIH Special Emphasis Panel. Coordination of Rare Diseases Research, 1999.
110. CDC Encephalitis Working Group Member. 1999.
111. NIH Special Emphasis Panel. HIV Vaccine Trials Network Clinical Trials Units Review. Washington, D. C. February 10, 2000.
112. NIH/NIAID Board of Scientific Counselors. Rockville, MD, June 4-5, 2000.
113. CDC Workshop on CMV Vaccine Development. October 25, 2000.
114. NIH/NIAID Board of Scientific Counselors. Rockville, MD, December 11-13, 2000.
115. NIH/NIAID Board of Scientific Counselors. Bethesda, MD, June 11-13, 2000.
116. FDA. Vaccines and Related Biological Products Advisory Committee. Bethesda, MD,

September 13-14, 2001.

117. FDA. Vaccines and Related Biological Products Advisory Committee. Bethesda, MD, January 30, 2002.
118. FDA. Vaccines and Related Biological Products Advisory Committee. Bethesda, MD, May 21, 2002.
119. NIH/NIAID Board of Scientific Counselors. Hamilton, Montana, June 10-12, 2002.
120. Joint Working Committee on Downselecting, Department of Health and Human Services, October 15, 2002.
120. NIAID Blue Ribbon Panel on Bioterrorism Related Research. Bethesda, MD, October 22-22, 2002.
121. NIH/NIAID Board of Scientific Counselors. Bethesda, Maryland, December 8-11, 2002.
122. FDA, NCI Biological Resource Branch Oversight Committee. Telecommunications, Frederick, Maryland, December 16, 2002.
123. FDA-Center for Biologics Evaluation and Research (CBER) Labor of Mycobacterial Diseases and Cellular Immunology (LMDCI), Bethesda, Maryland, January 7, 2002.
124. NIH/NIAID Board of Scientific Counselors. Bethesda, Maryland, June 9-10, 2003.
125. NIH/NIAID RCERBL meeting—Regional Center of Excellence Regional Biodefense Lab Kick Off Meeting for Biodefense Network, Rockville, Maryland, October 21, 2003.
126. SE Regional Centers of Excellence for Biodefense Executive Committee Meeting. Atlanta, Georgia, October 22, 2003.
127. NIAID Board of Scientific Counselors. Bethesda, Maryland, December 8-10, 2003.
128. NIH Clinical Roadmaps Meeting, Bethesda, Maryland, January 7-8, 2004.
129. SE Regional Centers of Excellence for Biodefense Executive Committee Meeting. Durham, North Carolina, February 5-6, 2004.
130. SE Regional Centers of Excellence for Biodefense Steering Committee Meeting. Bethesda, Maryland, April 19-20, 2004.
131. NIH/NIAID Board of Scientific Counselors. Bethesda, Maryland, June 6-8, 2004.
132. NIH/NIAID Board of Scientific Counselors. Bethesda, Maryland, December 6-8, 2004.

133. Institute of Medicine Pandemic Influenza Preparedness. Washington, D.C. April 2-6, 2005.
134. FDA Site Visit Review. Bethesda, Maryland, April 18-19, 2005.
135. SE Regional Centers of Excellence for Biodefense Steering Committee Meeting Bethesda, Maryland, April 19-20, 2005.
136. NIH/NIAID Board of Scientific Counselors. Bethesda, Maryland, June 3-8, 2005.
137. VRBPAC Meeting, Bethesda, MD, September 22-23, 2005.
138. NIH Council, Bethesda, MD, September 27, 2005.
139. Institute of Medicine Polio Workshop Committee. Washington, D.C. November 1-5, 2005.
140. VRBPAC Meeting, Bethesda, MD, November 17-18, 2005
141. NIH/NIAID Board of Scientific Counselors. Bethesda, MD, December 6-8, 2005.
142. National Center for Infectious Diseases Board of Scientific Counselors. CDC, National Center for Infectious Diseases, September, 2005.
143. NIAID Regional Centers of Excellence for Biodefense Steering Committee Meeting Bethesda, Maryland, April 19-20, 2005.
144. Institute of Medicine Pandemic Influenza. Washington, D.C. December 10, 2005.
145. Northeast Biodefense Center and the Western RCE. New York City, NY January 17-18, 2006.
146. National Counselors of Infectious Diseases of CDC. Atlanta, GA. May 11-12, 2006

Original Article

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